

Abstract of the Disclosure

There is disclosed a valve comprising a valve stem threaded with a translator having a flow modulating region, in which rotation of the valve stem about its axis causes the translator to move axially relative to the valve stem. In one aspect, the threads on the translator and the valve stem threads have substantially similar coefficients of thermal expansion. In another aspect, a protrusion limits axial movement of the valve stem in one direction, the valve stem has at least one protuberance, at least one gland is engaged with the valve body, and at least one shim is positioned between the protuberance and the gland so as to limit axial movement of the valve stem relative to the valve body in an opposite direction. There are also disclosed power generating systems including such valves, and methods of constructing such valves.